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## RAW SEQUENCE LISTING

DATE: 09/19/2001

PATENT APPLICATION: US/09/084,691B

TIME: 12:56:19

Input Set : A:\Nihl.app

Output Set: N:\CRF3\09192001\I084691B.raw

ENTERED

3 <110> APPLICANT: Bukh, J.  
 4 Miller, R.H.  
 5 Purcell, R.H.  
 7 <120> TITLE OF INVENTION: Nucleotide and Deduced Amino Acid Sequences of the  
 8 Envelope 1 and Core Genes of Isolates of Hepatitis C  
 9 Virus and the use of Reagents Derived From These  
 10 Sequences in Diagnostic Methods and Vaccines  
 12 <130> FILE REFERENCE: 20264116US2  
 14 <140> CURRENT APPLICATION NUMBER: 09/084,691B  
 C--> 15 <141> CURRENT FILING DATE: 2001-08-30  
 17 <150> PRIOR APPLICATION NUMBER: 08/290,665  
 18 <151> PRIOR FILING DATE: 1994-08-15  
 20 <150> PRIOR APPLICATION NUMBER: 08/086,428  
 21 <151> PRIOR FILING DATE: 1993-06-29  
 23 <160> NUMBER OF SEQ ID NOS: 274  
 25 <170> SOFTWARE: PatentIn Ver. 2.1  
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 28 <211> LENGTH: 576  
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 30 <213> ORGANISM: Homo sapiens  
 32 <220> FEATURE:  
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 38 gagggtaacg tctcgagggtg ttgggtggcg atgaccccca cggtagggcac cagggatggc 180  
 39 aaactcccca cagcgcagct tcgacgtcac atcgatctgc tcgtcgggag tgccaccctc 240  
 40 tgttcggccc tctacgtggg ggacctgtgc gggctctgtct ttcttgtcgg tcaactgttt 300  
 41 accttctctc ccaggcgcca ctggacgacg caaggctgca attgttctat ctatcctggc 360  
 42 catataacgg gtcaccgcat ggcgtgggat atgatgatga actgggtccc taccacggcg 420  
 43 ttggtagtag ctcagctgct ccggatcccc caagccatct tggacatgat cgtctggtgct 480  
 44 cactggggag tcctggcggg catagcgtat ttttccatgg tggggaactg ggcgaaggtc 540  
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80 gagggtaacg cctcgagggtg ttgggtggcg gtgaccccca cggtagccac cagggacggc 180
81 aaactcccca caacgcagct tcgacgtcac atcgacctgc ttgtcgggag cgccaccctc 240
82 tgctcggccc tctacgtggg ggacctgtgc gggctctgtc tccttgtcgg tcaactgttc 300
83 accttttctc ccaggcgcca ctggacaacg caagactgca attgttctat ctatcccggc 360
84 catataacgg gacaccgtat ggcattggg atgatgatga actggtcccc tacgacagcg 420
85 ctggtaatgg ctgagctgct ccggatcccc caagccatct tggacatgat cgctggagcc 480
86 cactggggag tcctagcggg catagcgtat ttctccatgg tggggaactg ggcgaaggtc 540
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102 aaactcccca caacgcagct ccgacgtcac atcgacctgc ttgtcgggag cgccaccctc 240
103 tgctcggccc tctacgtggg ggacttgtgc gggctctgtc tccttgtcgg tcaactgttc 300
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105 catataacgg gccaccgcat ggcgtggg atgatgatga actggtcccc tacgacagcg 420
106 ctggtagtag ctgagctgct ccggatcccc caagccatct tggacatgat cgctgggtgcc 480
107 cactggggag tcctagcggg catagcgtat ttctccatgg tggggaactg ggcgaaggtc 540
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112 <211> LENGTH: 576
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116 <220> FEATURE:
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119 <400> SEQUENCE: 5
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123 aaactcccg caacgcagct tcgacgttac atcgatctgc ttgtcgggag cgccaccctc 240
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127 ctggtagtag ctacagctgt cggatccca caagccatct tggatatgat cgctgggtgct 480
128 cactggggag tcctagcggg catagcgat ttctccatgg tgggaaactg ggcgaagggtc 540
129 ctagtgggtg tgctgtatt cgccggcggt gacgctg 576

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132 &lt;210&gt; SEQ ID NO: 6

133 &lt;211&gt; LENGTH: 576

134 &lt;212&gt; TYPE: DNA

135 &lt;213&gt; ORGANISM: Homo sapiens

137 &lt;220&gt; FEATURE:

138 &lt;223&gt; OTHER INFORMATION: Individual Isolate: S18

140 &lt;400&gt; SEQUENCE: 6

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143 gagggtaacg cctcgagatg ttgggtgccc gtggccccc cagttgccac caggacggc 180
144 aaactccccg caacgcagct tcgacgtcac atcgatctgc ttgttgggag cgccaccctc 240
145 tgctcgcccc tctatgtggg ggacctgtgc gggctgtct ttcttgtcag ccagctgttc 300
146 actatctccc ccaggcgcca ctggacaacg caagactgca actgttctat ctatcccggc 360
147 catataacgg gtcaccgtat ggcattggat atgatgatga actgggtccc tacaacggcg 420
148 ttggtaatag ctacagctgt cagggtccc caagccgtct tggacatgat cgctgggtgcc 480
149 cactggggag tcctagcggg catagcgat ttctccatgg cggggaactg ggcgaagggtc 540
150 ctgctagtgc tgttgcgtgt tgccggcgct gatgcg 576

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153 &lt;210&gt; SEQ ID NO: 7

154 &lt;211&gt; LENGTH: 576

155 &lt;212&gt; TYPE: DNA

156 &lt;213&gt; ORGANISM: Homo sapiens

158 &lt;220&gt; FEATURE:

159 &lt;223&gt; OTHER INFORMATION: Individual Isolate: SW1

161 &lt;400&gt; SEQUENCE: 7

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164 gaggatggcg cccgaagtg ttgggtggcg gtggccccc cagtcgccac tagggacggc 180
165 aaactccctg caacgcagct tcgacgtcac atcgatctgc ttgtcggaag cgccaccctc 240
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168 cacataacgg gtcaccgcat ggcattggat atgatgatga actgggtccc cacaacagcg 420
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175 &lt;211&gt; LENGTH: 576

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182 &lt;400&gt; SEQUENCE: 8

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188 accttctctc ccagacgcca ctggacgacg cagggctgca attgttctat ctatcccggc 360
189 catataacgg gtcaccgcat ggcatgggat atgatgatga actgggtcccc tacggcgggc 420
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191 cactgggggag tcctagcggg catagcgtat ttctccatgg tggggaactg ggcgaaggctc 540
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195 &lt;210&gt; SEQ ID NO: 9

196 &lt;211&gt; LENGTH: 576

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198 &lt;213&gt; ORGANISM: Homo sapiens

200 &lt;220&gt; FEATURE:

201 &lt;223&gt; OTHER INFORMATION: Individual Isolate: D1

203 &lt;400&gt; SEQUENCE: 9

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206 gaggacaact cctctcgctg ctgggtagcg ctcacccccca cgctcgcggc taggaatggc 180
207 aacgtcccca ctacggcgat acgacgccac gtcgatttgc tcgttggggc ggctgctttc 240
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210 cacgtgacag gtcaccgtat ggcttgggat atgatgatga actgggtcacc tacaacagcc 420
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222 &lt;223&gt; OTHER INFORMATION: Individual Isolate: D3

224 &lt;400&gt; SEQUENCE: 10

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227 gaggacaact cctctcgctg ctgggtagcg ctcacccccca cgctcgcggc taggaatagc 180
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239 &lt;212&gt; TYPE: DNA

240 &lt;213&gt; ORGANISM: Homo sapiens

242 &lt;220&gt; FEATURE:

243 &lt;223&gt; OTHER INFORMATION: Individual Isolate: DK1

245 &lt;400&gt; SEQUENCE: 11

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249 agcatcccca ctacgacaat acgacgccat gtcgatttgc tcgttggggc ggctgctttc 240
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254 cactggggag tcctggcggg cctcgcctac tactccatgg cggggaactg ggccaaggtt 540
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259 &lt;211&gt; LENGTH: 576

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264 &lt;223&gt; OTHER INFORMATION: Individual Isolate: HK3

266 &lt;400&gt; SEQUENCE: 12

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269 gagaacaact cctcccgttg ttgggtagcg ctcactccca cgctcgcggc caggaacgctc 180
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290 gagaacaact cctcccgttg ctgggtagcg ctcactccca cgctcgcggc caggaacgcc 180
291 agcatcccca ctacgacaat acgacgccat gtcgacttgc tcgttggggc ggctgctttc 240
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293 accttctcgc ctgcgccgca tgagacggtg caggactgca attgctcaat ctatcccggc 360
294 cacgtatcag gtcaccgcat ggcttgggat atgatgatga actggtcacc tacagcagcc 420
295 ctagtggtat cgcagttact ccgactccca caagctgtca tggacatggg ggcggggagcc 480
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303 &lt;213&gt; ORGANISM: Homo sapiens

305 &lt;220&gt; FEATURE:

306 &lt;223&gt; OTHER INFORMATION: Individual Isolate: HK5

Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

## VERIFICATION SUMMARY

DATE: 09/19/2001

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Input Set : A:\Nihl.app

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L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:7397 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:240  
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L:7467 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:243  
L:7473 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:243  
L:7528 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:244  
L:7531 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:244  
L:7574 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:245  
L:7577 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:245  
L:7626 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:247  
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L:8326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:266  
L:8332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:266  
L:8335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:266  
L:8338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:266  
L:8341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:266  
L:8406 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:267  
L:8412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:267  
L:8418 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:267  
L:8424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:267

## VERIFICATION SUMMARY

DATE: 09/19/2001

PATENT APPLICATION: US/09/084,691B

TIME: 12:56:20

Input Set : A:\Nihl.app

Output Set: N:\CRF3\09192001\I084691B.raw.

L:8430 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:267

L:8439 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:267

L:8495 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:268